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Title: NON-CHRONOLOGICAL SYSTEM STATISTICS

Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of claims:

Claims 1 and 2 (Canceled).

3. (Currently Amended) ~~The method of claim 2, wherein~~ A method of collecting system statistics in a telecommunications device, comprising:
generating a sequence of time intervals from a relative time reference,
wherein
the relative time reference is independent of adjustments to an absolute time reference;
gathering system statistics on a telecommunications device over the duration of each time interval;
storing a summarized record of the telecommunications device system statistics for the time interval at the conclusion of each selected time interval;
receiving a system statistics report request; and
sending the requested system statistics to the requestor, wherein sending the requested system statistics to the requestor further comprises adjusting the system statistics for reporting relative to the absolute time reference with a time offset value.
4. (Original) The method of claim 3, wherein the time offset value is regenerated when
the absolute time reference is changed.
5. (Currently Amended) The method of claim ~~3~~ 4, wherein the time interval is 15 minutes or 10 minutes.

6. (Currently Amended) The method of claim 3 \pm , wherein the system statistics are selected from the group consisting of error seconds (ES), severely errored seconds (SES), unavailable seconds (UAS), code violation (CV), and Loss of Sync Word Second (LOSWS).

7. (Currently Amended) The method of claim 3 \pm , further comprising:
storing the system statistics of each time interval in a current 24 hour period; and
summarizing the system statistics of each time interval of past 24 hour periods into a single system statistics report for the corresponding 24 hour period.

8. (Original) The method of claim 7, wherein the system statistics for an oldest time interval of the current 24 hour period is added to a previous 24 hour systems statistics summary when the system statistics of a new time interval are gathered and stored.

9. (Currently Amended) The method of claim 3 \pm , further comprising:
storing the system statistics representing each time interval in a first storage stage structure of a plurality of storage stage structures, wherein each storage stage structure of the plurality of storage stage structures store time intervals that are of greater duration than the time interval stored in a previous storage stage structure;

summarizing the system statistics of an oldest time interval of each storage stage structure at the end of a time interval of the storage stage into a system statistics report representing the greater duration time interval of a next storage stage structure; and

storing the system statistics representing the greater duration time interval in the next storage stage structure.

10. (Currently Amended) The method of claim 3 \pm , further comprising:
storing the system statistics of each time interval in a current 24 hour period;
summarizing the system statistics of an oldest time interval of past 24 hour

periods into a system statistics report for a 1 hour time interval;

storing each system statistics report for a 1 hour time interval for a 48 hour period after the current 24 hour period;

summarizing the system statistics report for an oldest 1 hour time interval of the 48 hour period into a system statistics report for a 24 hour time interval; and

storing each system statistics report for a 24 hour time interval for a selected duration period after the current 48 hour period.

Claims 11 and 12 (Cancelled).

13. (Currently Amended) ~~The method of claim 12,~~ A method of collecting performance statistics in a G.SHDSL compatible device, comprising:

generating a sequence of time intervals from a relative time reference, wherein the relative time reference is independent of adjustments to an absolute time reference;

gathering performance statistics on a G.SHDSL compatible device over the duration of each time interval;

storing a summarized record of the G.SHDSL compatible device performance statistics for the time interval at the conclusion of each selected time interval;

receiving a performance statistics report request; and

sending the requested system statistics to the requestor wherein sending the requested performance statistics to the requestor further comprises adjusting the performance statistics for reporting relative to the absolute time reference with a time offset value.

14. (Original) The method of claim 13, wherein the time offset value is regenerated when the absolute time reference is changed.

15. (Currently Amended) The method of claim 13 ~~14~~, wherein the time interval is 15 minutes or 10 minutes.

16. (Currently Amended) The method of claim 13 ~~11~~, wherein the performance statistics are selected from the group consisting of error seconds (ES), severely errored seconds (SES), unavailable seconds (UAS), code violation (CV), and Loss of Sync Word Second (LOSWS).

17. (Currently Amended) The method of claim 13 ~~11~~, wherein at least one performance statistic is gathered on a dataport selected from the group consisting of a V.35 dataport, a E1 dataport, and a G.SHDSL dataport.

18. (Currently Amended) The method of claim 13 ~~11~~, further comprising:
storing the performance statistics of each time interval in a current 24 hour period;
and
summarizing the performance statistics of each time interval of past 24 hour periods into a single performance statistics report for the corresponding 24 hour period.

19. (Original) The method of claim 18, wherein the performance statistics for an oldest time interval of the current 24 hour period is added to a previous 24 hour systems statistics summary when the performance statistics of a new time interval are gathered and stored.

20. (Currently Amended) The method of claim 13 ~~11~~, further comprising:
storing the performance statistics representing each time interval in a first storage stage structure of a plurality of storage stage structures, wherein each storage stage structure of the plurality of storage stage structures store time intervals that are of greater duration than the time interval stored in a previous storage stage structure; and
summarizing the performance statistics of an oldest time interval of each storage

stage structure at the end of a time interval of the storage stage into a performance statistics report representing the greater duration time interval of a next storage stage structure; and

storing the performance statistics representing the greater duration time interval in the next storage stage structure.

21. (Currently Amended) The method of claim 13 ~~14~~, further comprising:

storing the performance statistics of each time interval in a current 24 hour period;

summarizing the performance statistics of an oldest time interval of past 24 hour periods into a performance statistics report for a 1 hour time interval;

storing each performance statistics report for a 1 hour time interval for a 48 hour period after the current 24 hour period;

summarizing the performance statistics report for an oldest 1 hour time interval of the 48 hour period into a performance statistics report for a 24 hour time interval; and

storing each performance statistics report for a 24 hour time interval for a selected duration period after the current 48 hour period.

22. (Original) A method of collecting performance statistics in a G.SHDSL modem, comprising:

generating a sequence of fifteen minute time intervals from a relative time reference;

gathering performance statistics on a G.SHDSL modem over the duration of each fifteen time minute interval;

storing a summarized record of the G.SHDSL compatible device performance statistics for each fifteen minute time interval at the conclusion of each selected time interval over a twenty four hour period; and

reporting the summarized record of one or more fifteen minute time intervals relative to a chronological time reference.

23. (Original) The method of claim 22, wherein at least one performance statistics are gathered on a dataport selected from the group consisting of a V.35 dataport, a E1 dataport, and a G.SHDSL dataport.

24. (Original) The method of claim 22, further comprising:
storing the performance statistics of each time interval in a current 24 hour period;
and
summarizing the performance statistics of each time interval of past 24 hour periods into a single performance statistics report for the corresponding 24 hour period.

25. (Original) The method of claim 24, wherein the performance statistics for an oldest time interval of the current 24 hour period is added to a previous 24 hour systems statistics summary when the performance statistics of a new time interval are gathered and stored.

26. (Previously presented) The method of claim 22, wherein reporting the summarized record of one or more fifteen minute time intervals relative to a chronological time reference further comprises adjusting the performance statistics for reporting relative to the chronological time reference with a time offset value.

27. (Previously presented) The method of claim 26, wherein the time offset value is regenerated when the chronological time reference is changed.

Claims 28 and 29 (Canceled).

30. (Currently Amended) ~~The telecommunications device of claim 29, wherein the telecommunications device~~ A telecommunications device, comprising:

at least one communication link interface;
a relative time reference clock, wherein the relative time reference is independent of adjustments to an absolute time reference; and
a system statistics monitor, wherein the system statistics monitor gathers and stores statistics on the operation of the telecommunications device and the at least one communication link interface over the duration of a sequence of selected time intervals as defined by the relative time reference clock;
wherein the telecommunications device receives and responds to a request for a system statistics report and adjusts the system statistics relative to the absolute time reference with a time offset value.

31. (Original) The telecommunications device of claim 30, wherein the time offset value is regenerated when the absolute time reference is changed.
32. (Currently Amended) The telecommunications device of claim 30 ~~28~~, wherein the time interval is 15 minutes or 10 minutes.
33. (Currently Amended) The telecommunications device of claim 30 ~~28~~, wherein the system statistics are selected from the group consisting of error seconds (ES), severely errored seconds (SES), unavailable seconds (UAS), code violation (CV), and Loss of Sync Word Second (LOSWS).
34. (Currently Amended) The telecommunications device of claim 30 ~~28~~, wherein the telecommunications device stores the system statistics of each time interval in a current 24 hour period, and summarizes the system statistics of each time interval of past 24 hour periods into a single system statistic report for the corresponding 24 hour period.
35. (Original) The telecommunications device of claim 34, wherein the system statistics for an oldest time interval of the current 24 hour period is added to a previous

24 hour systems statistics summary when the system statistics of a new time interval are gathered and stored.

36. (Currently Amended) The telecommunications device of claim 30 ~~28~~, wherein the telecommunications device has a G.SHDSL dataport.

Claims 37 and 38 (Canceled).

39. (Currently Amended) ~~The G.SHDSL communications device of claim 38, wherein the telecommunications device~~ A G.SHDSL communications device, comprising:

at least one communication link interface;
a relative time reference clock, wherein the relative time reference is independent of adjustments to an absolute time reference; and
a performance statistics monitor, wherein the performance statistics monitor gathers and stores performance statistics on the operation of the G.SHDSL communications device and the at least one communication link interface over the duration of a sequence of selected time intervals as defined by the relative time reference clock;
wherein the telecommunications device receives and responds to a request for a performance statistics report and adjusts the performance statistics relative to the absolute time reference with a time offset value.

40. (Original) The G.SHDSL communications device of claim 39, wherein the time offset value is regenerated when the absolute time reference is changed.

41. (Currently Amended) The G.SHDSL communications device of claim 39 ~~37~~, wherein the time interval is 15 minutes or 10 minutes.

42. (Currently Amended) The G.SHDSL communications device of claim 39 ~~37~~, wherein the performance statistics are selected from the group consisting of error seconds (ES), severely errored seconds (SES), unavailable seconds (UAS), code violation (CV), and Loss of Sync Word Second (LOSWS).

43. (Currently Amended) The G.SHDSL communications device of claim 39 ~~37~~, wherein the telecommunications device stores the performance statistics of each time interval in a current 24hour period, and summarizes the performance statistics of each time interval of past 24 hour periods into a single system statistic report for the corresponding 24 hour period.

44. (Original) The G.SHDSL communications device of claim 43, wherein the performance statistics for an oldest time interval of the current 24 hour period is added to a previous 24 hour systems statistics summary when the performance statistics of a new time interval are gathered and stored.

45. (Currently Amended) The G.SHDSL communications device of claim 39 ~~37~~, wherein at least one performance statistic is gathered on a dataport selected from the group consisting of a V.35 dataport, a E1 dataport, and a G.SHDSL dataport.

46. (Original) A G.SHDSL modem, comprising:
a G.SHDSL communication link interface;
a relative time reference clock;
a performance statistics monitor, wherein the performance statistics monitor gathers and stores summarized performance statistics on the operation of the G.SHDSL modem and the G.SHDSL communication link interface over the duration of a sequence of fifteen minute time intervals in a twenty four hour period as defined by the relative time reference clock.

47. (Original) The G.SHDSL modem of claim 46, wherein the telecommunications device receives and responds to a request for a performance statistics report.

48. (Original) The G.SHDSL modem of claim 47, wherein the telecommunications device adjusts the performance statistics relative to an absolute clock reference with a time offset value.

49. (Previously presented) The G.SHDSL modem of claim 48, wherein the time offset value is regenerated when the absolute clock reference is changed.

50. (Original) The G.SHDSL modem of claim 46, wherein the telecommunications device stores the performance statistics of each time interval in a current 24 hour period, and summarizes the performance statistics of each time interval of past 24 hour periods into a single system statistic report for the corresponding 24 hour period.

51. (Original) The G.SHDSL modem of claim 50, wherein the performance statistics for an oldest time interval of the current 24 hour period is added to a previous 24 hour systems statistics summary when the performance statistics of a new time interval are gathered and stored.

52. (Original) The G.SHDSL modem of claim 46, wherein at least one performance statistic is gathered on a dataport selected from the group consisting of a V.35 dataport, a E1 dataport, and a G.SHDSL dataport.

Claim 53 (Canceled).

54. (Currently Amended) ~~The machine-readable medium of claim 53,~~ A machine-readable medium having machine readable instructions stored thereon for execution by a

processor of a telecommunications device to perform a method comprising:

generating a sequence of time intervals from a relative time reference, wherein the relative time reference is independent of adjustments to an absolute time reference;

gathering performance statistics on a telecommunications device over the duration

of each time interval; and

storing a summarized record of the telecommunications device performance statistics for the time interval at the conclusion of each selected time interval;

wherein at least one performance statistics are gathered on a dataport the telecommunications device selected from the group consisting of a V.35 dataport, a E1 dataport, and a G.SHDSL dataport.

55. (Currently Amended) The machine-usable medium of claim 54 ~~53~~, further comprising:

storing the performance statistics of each time interval in a current 24 hour period;

and

summarizing the performance statistics of each time interval of past 24 hour periods into a single performance statistics report for the corresponding 24 hour period.

56. (Original) The machine-usable medium of claim 55, wherein the performance statistics for an oldest time interval of the current 24 hour period is added to a previous 24 hour systems statistics summary when the performance statistics of a new time interval are gathered and stored.

57. (Currently Amended) The machine-usable medium of claim 54 ~~53~~, further comprising adjusting the performance statistics for reporting relative to the absolute time reference with a time offset value.

58. (Original) The machine-usable medium of claim 57, wherein the time offset value is regenerated when the absolute time reference is changed.

Claim 59 (Canceled).

60. (Currently Amended) ~~The telecommunications device of claim 59,~~ In a telecommunications device having at least one communication link interface, a relative time reference clock, and a performance statistics monitor, a performance statistics monitor method, comprising:
generating a sequence of time intervals from a relative time reference,
wherein
the relative time reference is independent of adjustments to an absolute time reference;
gathering performance statistics on a telecommunications device over the duration of each time interval; and
storing a summarized record of the telecommunications device performance statistics for the time interval at the conclusion of each selected time interval;
wherein at least one performance statistics are gathered on a dataport the telecommunications device selected from the group consisting of a V.35 dataport, a E1 dataport, and a G.SHDSL dataport.

61. (Currently Amended) The telecommunications device of claim 60 ~~59~~, further comprising:

storing the performance statistics of each time interval in a current 24 hour period;
and
summarizing the performance statistics of each time interval of past 24 hour periods into a single performance statistics report for the corresponding 24 hour period.

62. (Original) The telecommunications device of claim 61, wherein the performance statistics for an oldest time interval of the current 24 hour period is added to a previous 24 hour systems statistics summary when the performance statistics of a new time interval are gathered and stored.

63. (Currently Amended) The telecommunications device of claim 60 ~~59~~ further comprising adjusting the performance statistics for reporting relative to the absolute time reference with a time offset value.

64. (Original) The telecommunications device of claim 63, wherein the time offset value is regenerated when the absolute time reference is changed.